

S/N Unknown

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Byoung S. Kwon

Examiner: Unknown

Serial No.: Unknown

Group Art Unit: Unknown

Filed: Herewith

Docket: 740.009US2

Title: ANTIBODY FOR 4-1BB



INFORMATION DISCLOSURE STATEMENT

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for review in connection with the above-identified patent application. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant.

In accordance with 37 C.F.R. §1.98(d), copies of the listed documents are not provided as these references were previously cited by or submitted to the U.S. Patent Office in connection with Applicant's prior U.S. application, Serial No. 08/012,269, filed on February 1, 1993, which is relied upon for an earlier filing date under 35 U.S.C. §120.

Applicant respectfully requests consideration of these references during prosecution of the above-identified matter. The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

BYOUNG S. KWON

By his Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 373-6959

Date

February 4, 2002

By

[Signature]
Janet E. Embretson

Reg. No. 39,665

"Express Mail" mailing label number: EV041075003US

Date of Deposit: February 4, 2002

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to The Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Form 1449*	Atty. Docket No.: 740.009US2	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Byoung S. Kwon	
	Filing Date: Herewith	Group: Unknown

J1046 U.S. PTO
10/06/122
02/04/02

U.S. PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,560,649	12/24/1985	Saxena, B.B., et al.	435	7	11/09/82
	5,674,704	10/07/1997	Goodwin, R.G., et al.	435	69.1	05/06/94
	5,928,893	07/27/1999	Kang, C., et al.	435	69.1	11/13/96

FOREIGN PATENT DOCUMENTS

**Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
	95/07984	03/23/1995	PCT	C12N	15/12	
	96/29348	09/26/1996	PCT	C07K	16/00	
	96/29348	09/26/1996	PCT	C07K	16/00	
	97/33898	09/18/1997	PCT	C07H	21/00	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

**Examiner Initial	
	"GenBank Accession No. L12964", (1993)
	Alderson, M.R., et al., "Molecular and Biological Characterization of Human 4-1BB and its Ligand", <u>Eur. J. Immunol.</u> , 24, pp. 2219-2227, (1994)
	Barclay, et al., "The Leucocyte Antigen FactsBook", <u>Academic Press: London</u> , pp. 70-71,
	Callard, R.E., et al., "The Cytokine FactsBook", <u>Academic Press: London</u> , 39-40, (1994)
	Chalupny, N.J., et al., "T-cell activation molecule 4-1BB binds to extracellular matrix proteins", <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 89,, pp. 10360-10364, (November 1992)
	Debenedette, M.A., et al., "Costimulation of CD28-T Lymphocytes by 4-1BB Ligand", <u>The Journal of Immunology</u> , 158 (2), pp. 551-559, (1997)

Examiner	Date Considered
----------	-----------------

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449*	Atty. Docket No.: 740.009US2	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Byoung S. Kwon	
	Filing Date: Herewith	Group: Unknown

OTHER DOCUMENTS

**Examiner
Initial

(Including Author, Title, Date, Pertinent Pages, Etc.)

	Humphrey, J.H., "Regulation of in vivo immune responses: few principles and much ignorance", <u>Ciba Foundation Symposium</u> , 119, 6-24, (1986)
	Lerner, R.A., "Antibodies of Predetermined Specificity in Biology and Medicine", <u>Adv. Immunol.</u> , 36, 1-44, (1984)
	Loo, D.T., et al., "Analysis of 4-1BBL and Laminin binding to murine 4-1BB, a member of the tumor necrosis factor receptor superfamily, and comparison with human 4-1BB", <u>J. Biol. Chem.</u> , 272 (10), Not really a final rejection action but an Advisory Action, 6448-6456, (1997)
	Mathews, L.S., "Expression Cloning of an Activin Receptor, a Predicted Transmembrane Serine Kinase", <u>Cell</u> , Vol.65, 973-982, (June 14, 1991)
	Melchers, F., et al., "Factors Controlling the B-Cell Cycle", <u>Ann. Rev. Immunol.</u> , 4, 13-26, (1986)
	Melero, I., et al., "Monoclonal Antibodies Against the 4-1BB T-cell Activation Molecule Eradicate Established Tumors", <u>Nature Medicine</u> , 3 (6), pp. 682-685, (June 1997)
	Pollok, K.E., et al., "4-1BB T-cell antigen binds to mature B cells and macrophages, and costimulates anti-u-primed splenic B cells", <u>Eur. J. Immunol.</u> , 24, 367-374, (1994)
	Pollok, K.E., et al., "Inducible T Cell Antigen 4-1BB", <u>J. Immunol.</u> , 150 (3), pp. 771-781, (1993)
	Schwarz, et al., "Nucleotide sequence of ILA, a cDNA encoding a new member of the human nerve growth factor/tumor necrosis factor receptor family", <u>Accession Number: L12964, GenBank CD-ROM release</u> , (June 1993)
	Schwarz, H., et al., "A receptor induced by lymphocyte activation (ILA): a new member of the human nerve-growth-factor/tumor-necrosis-factor receptor family", <u>Gene</u> , 134, 295-298, (1993)

Examiner	Date Considered
----------	-----------------

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449*	Atty. Docket No.: 740.009US2	Serial No. Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Applicant: Byoung S. Kwon	
	Filing Date: Herewith	Group: Unknown

OTHER DOCUMENTS

**Examiner
Initial

(Including Author, Title, Date, Pertinent Pages, Etc.)

	Shuford, W.W., et al., "4-1BB Costimulatory Signals Preferentially Induce CD8+ T Cells Proliferation and Lead to the Amplification In Vivo of Cytotoxic T Cell Responses", <u>The Journal of Experimental Medicine</u> , 186 (1), pp. 47-55, (1997)
	Smith, C.A., "A Receptor for Tumor Necrosis Factor Defines an Unusual Family of Cellular and Viral Proteins", <u>Science</u> , Vol 248, 1019-1023, (May 25, 1990)

Examiner	Date Considered
----------	-----------------

*Substitute Disclosure Statement Form (PTO-1449)

**EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.